



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/912,131 | 07/24/2001 | Tse-Hua Lan | US 010337 | 4022 |

24737 7590 07/28/2004

PHILIPS INTELLECTUAL PROPERTY & STANDARDS
P.O. BOX 3001
BRIARCLIFF MANOR, NY 10510

EXAMINER

DANG, DUY M

ART UNIT PAPER NUMBER

2621

DATE MAILED: 07/28/2004

4

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/912,131

Applicant(s)

LAN ET AL.

Examiner

Duy M Dang

Art Unit

2621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 July 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 10-04-2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>3</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Boyce et al. [US Patent No. 6,025,878. Art of record, IDS filed 10/04/02].

Regarding claim 1, Boyce teaches a method for decoding video [i.e., the illustrated decoder 100 of figure 1 and mentioned in col. 4 lines 60-65], comprising the steps of:

reducing a number of transform coefficients in B-frames to produce reduced B-frames [i.e., the preparser 112 of figure 1 and text portion mentioned in col. 6 line 61 to col. 7 line 6. Note that preparser 112 performs removal of AC DCT coefficient on B-frames to produce reduced B-frames];

performing inverse quantization on the reduced B-frames [i.e., the inverse quantization circuit 122 in figure 1. Note this inverse quantization performs inverse-quantized on the reduced B-frames which are outputted from preparser 112]; and

performing an inverse transform on the reduce B-frames [i.e., the inverse DCT circuit 124 in figure 1].

While Boyce does not explicitly teach inverse scanning, Boyce does teach zig-zag scanning used in the DCT compression system according to column 7 lines 7-13. Thus, the inverse zig-zag scanning is inherently included in Boyce in order to for the decoder 100 to perform decompression the compressed video stream.

Art Unit: 2621

Regarding claim 2, Boyce further teaches wherein the reduced B-frames are produced by:
identifying blocks associated with the B-frames [see col. 6 lines 20-28. Note that this cited text portion refers to identifying blocks associated with the B-frames by the preparer 112];
and

selecting transform coefficients included in a predetermined area of the blocks associated with the B-frames [see col. 6 lines 63-67].

Regarding claim 3, while Boyce does not explicitly teach inverse zig-zag scanning, Boyce does teach zig-zag scanning used in the DCT compression system according to column 7 lines 7-13. Thus, the inverse zig-zag scanning is inherently included in Boyce in order to for the decoder 100 to perform decompression the compressed video stream..

Regarding claim 4, Boyce further teaches wherein the inverse transform is an inverse discrete cosine transform [i.e., inverse DCT circuit 124 in figure 1].

The advanced statements as applied to claims 1-4 above are incorporated herein. With regard to claims 5-8, Boyce further teaches a memory medium including code for decoding [i.e., coded data buffer 116 of figure 1 and mentioned in col. 6 lines 38-40].

Regarding claims 9-16, it is noted that those apparatus claims recite corresponding features called for in method claims 1-4. Thus, claims 9-12 are also rejected for the same reasons as set forth in claims 1-4 above.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duy M Dang whose telephone number is 703-305-1464. The examiner can normally be reached on Monday to Thursday from 6:30AM to 5:00PM..

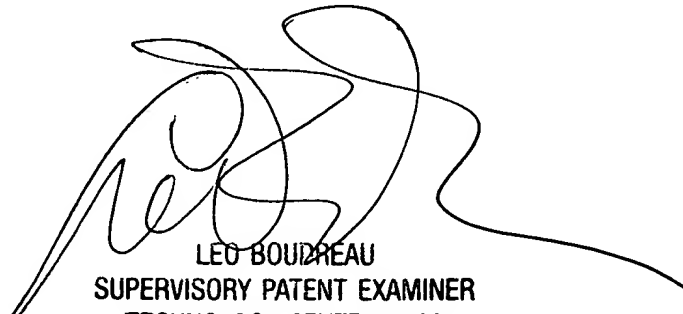
Art Unit: 2621

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo H Boudreau can be reached on 703-305-4706. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dmd

dmd
7/21/04



LEO BOUDREAU
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600